

Figure S1

	TRAP	*	*	***	*	*	*	*	*	*	*	*						
Peru	LMDCSGSIRRHNWVKHAVPLAMKLIQQQLNLNEAHYANIFSNNAKEIIRLHSASKNEKEKALIIIKSLLSTNLPYGRNTLSDALLQVRKHLNDRINRENANQLVVI	TLDGIPD	SIQDSL	KESRKLN	DRGVKIAVFGIGQGINVAFNRFLVGCHPSDGKCNLYADSAWENVKNVIGPFM	KAVC	VE											
MONT-S1	LMDCSGSIRRHNWVKHAVPLAMKLIQQQLNLNDNAIHYAWVFSNNAKEIIRLHSASKNEKEKALIIIKSLLSTNLPYGRNTLSDALLQVRKHLNDRINRENANQLVVI	TLDGIPD	SIQDSL	KESRKLN	DRGVKIAVFGIGQGINVAFNRFLVGCHPSDGKCNLYADSAWENVKNVIGPFM	KAVC	VE											
ECP	LMDCSGSIRRHNWVKHAVPLAMKLIQQQLNLNDNAIHYAWVFSNNAKEIIRLHSASKNEKEKALIIIKSLLSTNLPYGRNTLSDALLQVRKHLNDRINRENANQLVVI	TLDGIPD	SIQDSL	KESRKLN	DRGVKIAVFGIGQGINVAFNRFLVGCHPSDGKCNLYADSAWENVKNVIGPFM	KAVC	VE											
3D7	LMDCSGSIRRHNWVKHAVPLAMKLIQQQLNLNDNAIHYASVFSNNAKEIIRLHSASKNEKEKALIIIKSLLSTNLPYGRNTLSDALLQVRKHLNDRINRENANQLVVI	TLDGIPD	SIQDSL	KESRKLN	DRGVKIAVFGIGQGINVAFNRFLVGCHPSDGKCNLYADSAWENVKNVIGPFM	KAVC	VE											
HB3	LMDCSGSIRRHNWVKHAVPLAMKLIQQQLNLNEAHYANIFSNNAKEIIRLHSASKNEKEKALIIIKSLLSTNLPYGRNTLSDALLQVRKHLNDRINRENANQLVVI	TLDGIPD	SIQDSL	KESRKLN	DRGVKIAVFGIGQGINVAFNRFLVGCHPSDGKCNLYADSAWENVKNVIGPFM	KAVC	VE											
	CTR	*	*	*	*	*	*	*	*	*	*	*						
Dd2	ILDESRSITLNWKWDVVPAEKVLNNLNIDDKDIGHVGIMRFAKSMTDIGYEQETRYMKNDLKLVRRELKDQYGGATHLVDALQYSLKTFTRHPNNRVDA	KVT	ILFTD	GNETSKKE	KEDIRDVG	LLYRKENV	KLIVVG	VNLATE	TEKSL	KLLAGCTE	NEECL	RVKIC	EWNDLT	NITKILT	DKIC	*		
Peru	ILDESRSITLNWKWDVVPAEKVLNNLNIDDKDIGHVGIMRFAKSMTDIGYEQETRYMKNDLKLVRRELKDQYGGATHLVDALQYSLKTFTRHPNNRVDA	KVT	ILFTD	GNETSKKE	KEDIRDVG	LLYRKENV	KLIVVG	VNLATE	TEKSL	KLLAGCTE	NEECL	RVKIC	EWNDLT	NITKILT	DKIC	K		
MONT-S1	ILDESRSITLNWKWDVVPAEKVLNNLNIDDKDIGHVGIMRFAKSMTDIGYEQETRYMKNDLKLVRRELKDQYGGATHLVDALQYSLKTFTRHPNNRVDA	KVT	ILFTD	GNETSKKE	KEDIRDVG	LLYRKENV	KLIVVG	VNLATE	TEKSL	KLLAGCTE	NEECL	RVKIC	EWNDLT	NITKILT	DKIC	K		
ECP	ILDESRSITLNWKWDVVPAEKVLNNLNIDDKDIGHVGIMRFAKSMTDIGYEQETRYMKNDLKLVRRELKDQYGGATHLVDALQYSLKTFTRHPNNRVDA	KVT	ILFTD	GNETSKKE	KEDIRDVG	LLYRKENV	KLIVVG	VNLATE	TEKSL	KLLAGCTE	NEECL	RVKIC	EWNDLT	NITKILT	DKIC	CN		
3D7	ILDESRSITLNWKWDVVPAEKVLNNLNIDDKDIGHVGIMRFAKSMTDIGYEQETRYMKNDLKLVRRELKDQYGGATHLVDALQYSLKTFTRHPNNRVDA	KVT	ILFTD	GNETSKKE	KEDIRDVG	LLYRKENV	KLIVVG	VNLATE	TEKSL	KLLAGCTE	NEECL	RVKIC	EWNDLT	NITKILT	DKIC	CN		
HB3	ILDESRSITLNWKWDVVPAEKVLNNLNIDDKDIGHVGIMRFAKSMTDIGYEQETRYMKNDLKLVRRELKDQYGGATHLVDALQYSLKTFTRHPNNRVDA	KVT	ILFTD	GNETSKKE	KEDIRDVG	LLYRKENV	KLIVVG	VNLATE	TEKSL	KLLAGCTE	NEECL	RVKIC	EWNDLT	NITKILT	DKIC	CN		
	TRAP4	*	*	*	*	*	*	*	*	*	*	*						
MalCamp	TTYSHTYNWFNSNVLSKDKDKLTLYLEFFKFNFGSSTKNQKAIQYMDHVLNTNYRNDAKKIMLI	INS	GEID	DNKTVT	SVPDII	QRLK	DTHN	VQVSY	SICINN	QN	VKNCR	KLSTH	SM	EYGSNF	AFLPN	ASDLR	YRNVLGI	QKS
FVO	TTYSHTYNWFNSNVLSKDKDKLTLYLEFFKFNFGSSTKNQKAIQYMDHVLNTNYRNDAKKIMLI	INS	GEID	DNKTVT	SVPDII	QRLK	DTHN	VQVSY	SICINN	QN	VKNCR	KLSTH	SM	EYGSNF	AFLPN	ASDLR	YRNVLGI	QKS
ECP	TTYSHTYNWFNSNVLSKDKDKLTLYLEFFKFNFGSSTKNQKAIQYMDHVLNTNYRNDAKKIMLI	INS	GEID	DNKTVT	SVPDII	QRLK	DTHN	VQVSY	SICINN	QN	VKNCR	KLSTH	SM	EYGSNF	AFLPN	ASDLR	YRNVLGI	QKS
MONT-S1	TTYSHTYNWFNSNVLSKDKDKLTLYLEFFKFNFGSSTKNQKAIQYMDHVLNTNYRNDAKKIMLI	INS	GEID	DNKTVT	SVPDII	QRLK	DTHN	VQVSY	SICINN	QN	VKNCR	KLSTH	SM	EYGSNF	AFLPN	ASDLR	YRNVLGI	QKS
PCC-4	TTYSHTYNWFNSNVLSKDKDKLTLYLEFFKFNFGSSTKNQKAIQYMDHVLNTNYRNDAKKIMLI	INS	GEID	DNKTVT	SVPDII	QRLK	DTHN	VQVSY	SICINN	QN	VKNCR	KLSTH	SM	EYGSNF	AFLPN	ASDLR	YRNVLGI	QKS
Dd2	TTYSHTYNWFNSNVLSKDKDKLTLYLEFFKFNFGSSTKNQKAIQYMDHVLNTNYRNDAKKIMLI	INS	GEID	DNKTVT	SVPDII	QRLK	DTHN	VQVSY	SICINN	QN	VKNCR	KLSTH	SM	EYGSNF	AFLPN	ASDLR	YRNVLGI	QKS
Peru	TTYSHTYNWFNSNVLSKDKDKLTLYLEFFKFNFGSSTKNQKAIQYMDHVLNTNYRNDAKKIMLI	INS	GEID	DNKTVT	SVPDII	QRLK	DTHN	VQVSY	SICINN	QN	VKNCR	KLSTH	SM	EYGSNF	AFLPN	ASDLR	YRNVLGI	QKS
SantLuc	TTYSHTYNWFNSNVLSKDKDKLTLYLEFFKFNFGSSTKNQKAIQYMDHVLNTNYRNDAKKIMLI	INS	GEID	DNKTVT	SVPDII	QRLK	DTHN	VQVSY	SICINN	QN	VKNCR	KLSTH	SM	EYGSNF	AFLPN	ASDLR	YRNVLGI	QKS
Genieve	TTYSHTYNWFNSNVLSKDKDKLTLYLEFFKFNFGSSTKNQKAIQYMDHVLNTNYRNDAKKIMLI	INS	GEID	DNKTVT	SVPDII	QRLK	DTHN	VQVSY	SICINN	QN	VKNCR	KLSTH	SM	EYGSNF	AFLPN	ASDLR	YRNVLGI	QKS
HB3	TTYSHTYNWFNSNVLSKDKDKLTLYLEFFKFNFGSSTKNQKAIQYMDHVLNTNYRNDAKKIMLI	INS	GEID	DNKTVT	SVPDII	QRLK	DTHN	VQVSY	SICINN	QN	VKNCR	KLSTH	SM	EYGSNF	AFLPN	ASDLR	YRNVLGI	QKS
3D7	TTYSHTYNWFNSNVLSKDKDKLTLYLEFFKFNFGSSTKNQKAIQYMDHVLNTNYRNDAKKIMLI	INS	GEID	DNKTVT	SVPDII	QRLK	DTHN	VQVSY	SICINN	QN	VKNCR	KLSTH	SM	EYGSNF	AFLPN	ASDLR	YRNVLGI	QKS

Supplementary Figure 2

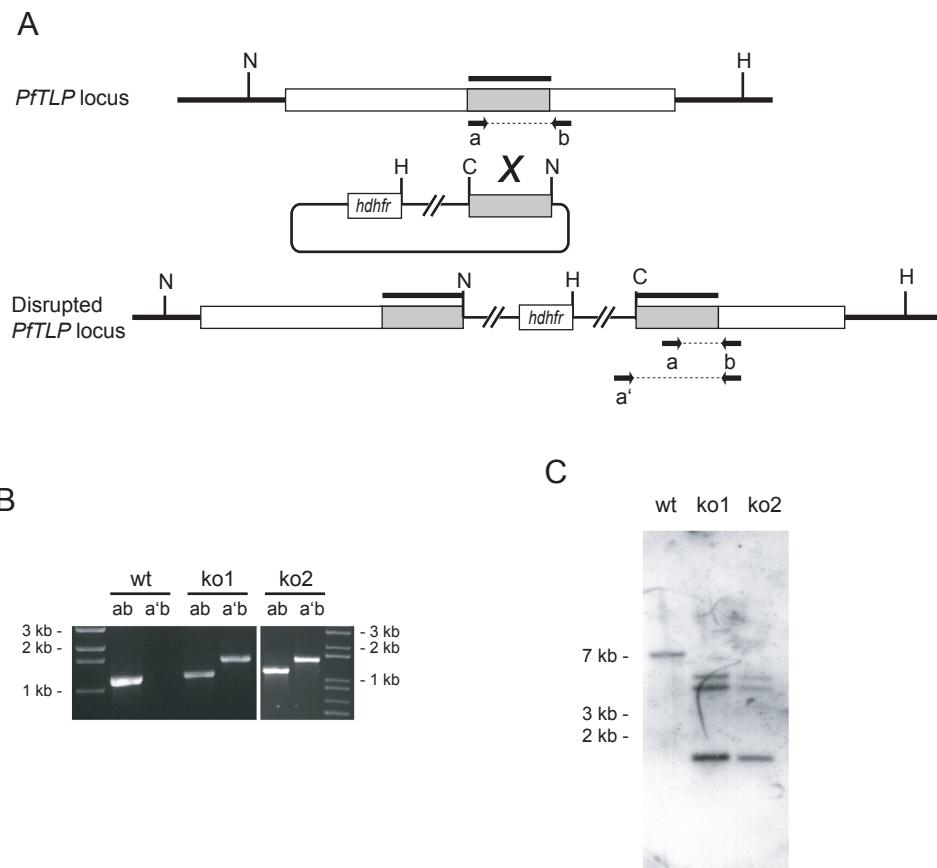


Figure S3

